

**APPENDIX**

1. (Rewritten) A structure comprising:

a polycrystalline material comprising crystallites of polymers with interstitial regions therebetween;

polymers are selected from the group consisting of a precursor to an electrically conductive polymer and an electrically conductive polymer;

said interstitial regions between said crystallites comprising amorphous material comprising an additive;

said additive provides mobility to said polymer to allow said polymer to associate with one another to achieve said crystallites;

said polycrystalline material is characterized by a degree of crystallinity and a degree of amorphous regions, said degree of polycrystallinity and said degree of amorphous regions are selected by selecting the composition of said additive and the amount of said additive.

3. (Rewritten) A structure according to claim 1, wherein said additive is a plasticizer.

7. (Rewritten) A structure comprising :

a polycrystalline material comprising crystallites of polymers with interstitial regions therebetween;

said polymer is selected from the group consisting of a precursors to an electrically conductive polymer and an electrically conductiv polymer;

said interstitial regions comprise an amorphous material selected from the group consisting of said polymers;

said amorphous material includes an additive;

said polycrystalline material is characterized by a degree of crystallinity and a degree of amorphous regions, said degree of polycrystallinity and said degree of amorphous regions are selected by selecting the composition of said additive and the amount of said additive.

10. (Rewritten) A structure according to claim 7, wherein said additive is selected from the group consisting of:

Adipic acid derivatives  
Azelaic acid derivatives  
Benzoic acid derivatives  
Citric acid derivatives  
Dimer acid derivatives  
Epoxy derivatives  
Fumaric acid derivatives  
Glycerol derivatives  
Isobutyrate derivatives  
Isophthalic acid derivatives  
Lauric acid derivatives  
Linoleic acid derivative  
Maleic acid derivative  
Mellitates  
Myristic acid derivatives  
Oleic acid derivatives  
Plamitic acid derivatives  
Paraffin derivatives

Sebacic acid derivatives  
Stearic acid derivatives  
Succinic acid derivatives  
Sulfonic acid derivative  
Terpentines  
Terpentine derivatives  
Siloxanes  
Polysiloxanes  
Ethylene glycols  
Polyethylene glycols  
Polyesters  
Sucrose derivatives  
Tartaric acid derivative  
Terephthalic acid derivative  
Trimellitic acid derivatives  
Glycol derivatives  
Glycolates  
Hydrocarbons

Phosphoric acid derivatives

Phosphonic acid derivatives

Phthalic acid derivatives

Polysilanes

Ricinoleic acid derivatives

18. (Rewritten) A structure comprising:

a polycrystalline material comprising crystallites of polyaniline with interstitial regions therebetween;

said polyaniline is selected from the group consisting of a precursors to an electrically conductive polyaniline and an electrically conductive polyaniline;

said interstitial regions comprise an amorphous material selected from the group consisting of polyaniline;

said amorphous material includes an additive in an amount from about 0.001% to about 90% by weight;

said additive is selected from the group consisting of poly-co-dimethylaminopropyl siloxane, poly (ethylene glycol) tetrahydro furfuryl ether, glycerol triacetate and epoxidized soy bean oil;

said polycrystalline material is characterized by a degree of crystallinity and a degree of amorphous regions, said degree of polycrystallinity and said degree of amorphous regions are selected by selecting the composition of said additive and the amount of said additive.

21. (Rewritten) A structure according to claim 1, wherein the additive is in an amount for about 0.001% to about 90% by weight.

23. (Rewritten) A structure according to claim 1, wherein said amorphous regions have crystalline order.